



SENSING THE CHANGE

**SWITCHES,
TRANSMITTERS
& VALVES**

LEADING DESIGNER & MANUFACTURER OF SWITCHES, TRANSMITTERS & VALVES

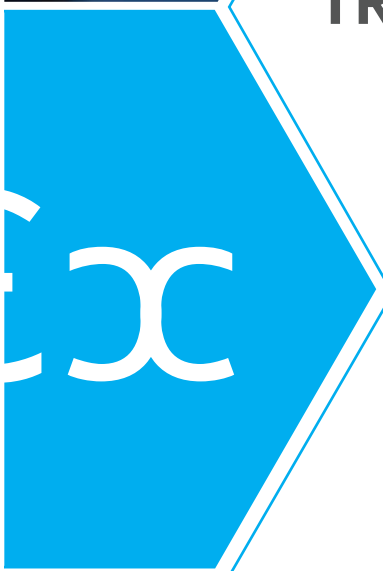
Pyropress is a leading designer and manufacturer of switches, transmitters, valves and sensors offering engineering solutions for hazardous area, marine and industrial applications. For over 60 years we have built a solid and impressive reputation for quality, with reliable and durable products.

Our products are designed to work in demanding and hazardous environments which require fast and cost effective solutions in instrumentation and control. Pyropress control sensors provide safe and reliable electrical switching of alarm or control circuits in response to changes in temperature, pressure, differential pressure, vacuum, fluid, flow and level conditions.

Our comprehensive product range incorporates proven design techniques and technology for flameproof (Exd), Intrinsically Safe (Exia), marine or industrial areas.

**EXPLOSION
PROTECTION
& INDUSTRIAL**





SWITCHES

TRANSMITTERS

**SERVICE,
SUPPORT,
TRAINING
AND PARTS**

VALVES

SWITCHES



**PRESSURE,
VACUUM,
DIFFERENTIAL
PRESSURE,
TEMPERATURE,
LEVEL & FLOW**

Pyropress is world renowned for our market leading range of high accuracy switches. For over 60 years we have been developing and expanding an extensive range of pressure, differential pressure, vacuum, temperature, level and flow switches for industrial, marine and hazardous areas applications.

FEATURES & BENEFITS

- 1 x SPDT or 2 x SPDT microswitch options
- Adjustable deadband or dual independently adjustable switches
- 316 Stainless steel housing to IP66/67 standards or Black anodised aluminium housing to IP66/67 standards
- SIL 2 widely available across all ranges
- ATEX and IECEx certification both Exd and Exia
- Design incorporates set point adjustment outside of flameproof housing, enabling adjustment whilst in operation
- A secondary diaphragm (on Titan switches) provides a mechanically barrier between the process and electrical connection.

CERTIFICATION

Our switch ranges are available with various certifications:

Flameproof (explosion proof)

ATEX/IECEx II2G Exd IIB + H2 T6...T2 Gb Ta = -60°C to +90°C

ATEX/IECEx II2D ExtD A21 IP66 T85°C Ta = -50°C to +75°C

ATEX/IECEx Exd IIC T6...T2 Gb Ta = -50°C to +89°C

For use in Zone 1 (category 2) hazardous areas

Intrinsically Safe (simple apparatus)

ATEX/IECEx II1G Exia IIC Ga T6...T2 Ta= -50°C to +128°C

ATEX/IECEx II1GD ExiaD 20 IP66 T200°C Ta= -50°C to +70°C

For use in Zone 0 (category 1) hazardous areas

Industrial

Robust weatherproof enclosures for saliferous areas, transportation marine and arduous industrial applications. Options for 120G shock test, high ambient temperatures : 250°C for 1 hour



Titan flameproof differential pressure switch



Hermes flameproof pressure switch

TRANSMITTERS



**PRESSURE,
VACUUM,
ABSOLUTE
PRESSURE,
DIFFERENTIAL
PRESSURE,
TEMPERATURE
& LEVEL**

Pyropress can offer a wide range of pressure, vacuum, absolute pressure, differential pressure and temperature transmitters suitable for use in arduous environments for hazardous and industrial applications.

FEATURES & BENEFITS

- 4 – 20 mA or 0 – 10 Volts outputs
- Hart/Smart option
- 316 Stainless steel housing to IP66/67 standards or Blue double epoxy painted aluminium housing to IP66/67 standards
- SIL 2 widely available across all ranges
- ATEX and IECEx certification both Exd and Exia
- Accuracy from 0.05%
- Integral display option
- SIL 1 and SIL 2 options
- Damping option
- Fast response time
- Choice of sensor materials
- Across zone option

CERTIFICATION

Our transmitters are available with various certifications:

Flameproof (explosion proof)

II 1/2G Ex ia/d IIC T5/T6 Ga/Gb

II 1/2D Ex ia/t IIIC T85°C/T100°C Da/Db

I M2 Exd ia I Mb (only with stainless steel housing) or

II 2G Ex ia/d IIC T6/T5 Gb

II 2D Ex ia/t IIIC T85°C/T100°C Db

Intrinsically Safe

II 1/2G Ex ia IIC T4/T5 Ga/Gb

II 1 D Ex ia IIIC T105°C Da

I M1 Ex ia I Ma (only with stainless steel housing) or

II 1/2G Ex ia IIC T4/T5 Ga/Gb

Industrial

Robust weatherproof enclosures for saliferous areas, transportation marine and arduous industrial applications



Example of a flameproof pressure transmitter



Example of a flameproof temperature transmitter

EXPLOSION RELIEF VALVES



**CRANKCASE
& EXHAUST
EXPLOSION
RELIEF VALVES**

CRANKCASE VALVES

Explosion Relief Valves (ERV) are an integral part of large compression ignition engines, allowing the safe release of potentially catastrophic pressure generated by crankcase explosions in a safe and controlled manner.

The Pyropress valve is fitted with an internal flame trap, offering greater protection from the effects of a crankcase explosion than other types of protection.

This range of valves incorporates an internal, oil wetted, wire gauze flame-trap devised and patented by the British Internal Combustion Engine Research Institute, which after thorough investigation and testing has been found to give the most efficient degree of flame arresting.

This high efficiency flame-trap is combined with a quick acting, spring loaded, stemless valve disc, which ensures frictionless valve operation and eliminates any possible danger of sticking.

FEATURES & BENEFITS

- Crankcase explosion relief valve
- Internal oil wetted flame arrestor offers six times the heat absorption of external flame traps
- Proven in service for long life and efficiency
- Safety deflecting cover
- Robust and durable even in the most arduous conditions, weatherproof versions available

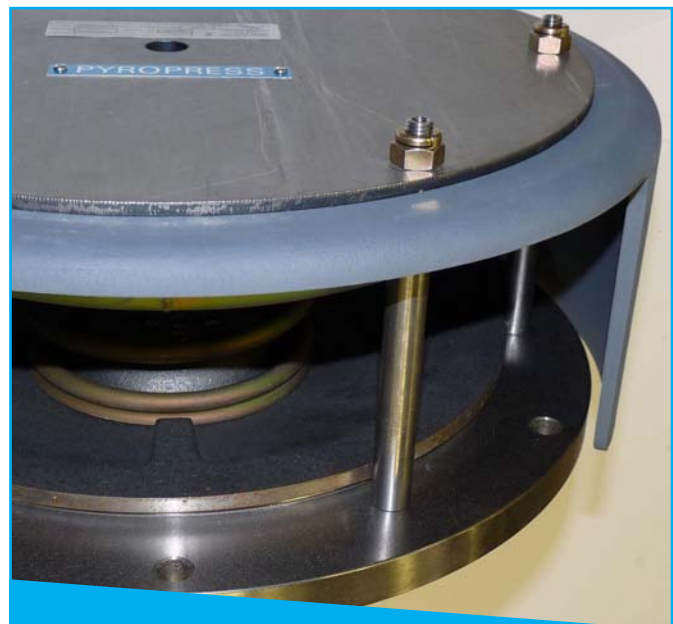
EXHAUST VALVES

To avoid a dangerous pressure rise and resultant damage in the event of an explosion occurring in exhausts and silencers it is necessary to provide pressure relief valves of an ample area.

This valve is suitable for temperatures of up to 540°C and has been developed from our crankcase explosion relief valves which have been manufacturer for over 50 years.

FEATURES & BENEFITS

- Once actuated valve will reseal unlike bursting discs which require replacement
- Proven in service for long life and efficiency
- Options for integral indicator and microswitch
- 1.25, 2 and 3 psi opening pressures, others available



Example of an exhaust explosion relief valve

AIR SHUT OFF VALVES

THE PYROPRESS ASO VALVE H SERIES

This butterfly air shut-off valve is designed for diesel engine shutdown in the event of “over-speeding” if the engine ingests flammable gasses.

The design includes a metal to metal plate seal and high temperature bearings for today's turbo-charged and intercooled engines (max air temperature 150degC).

The slim butterfly design has a low pressure drop avoiding restriction loss in engine power.

FEATURES & BENEFITS

- Electric valves ATEX and IECEx certified
- Pneumatic and Hydraulic valves ATEX approved
- Additional Safety non-certified options
- EX II 2GD
- Integral Flame Arrestor options (crimp size to be determined at point of order). IIA and IIB gas group options
- Electric valve options include flying lead (compact) or junction box
- Valve position switch options -micro switch for feedback to control system
- Manual hand lever operation for hydraulic valve
- Range of tube end adaptors for ease of installation in air intake
- Valve body anodised aluminium & corrosion protected by a PTFE coating
- Other rotating valve parts are made from 316 or 304L stainless steel

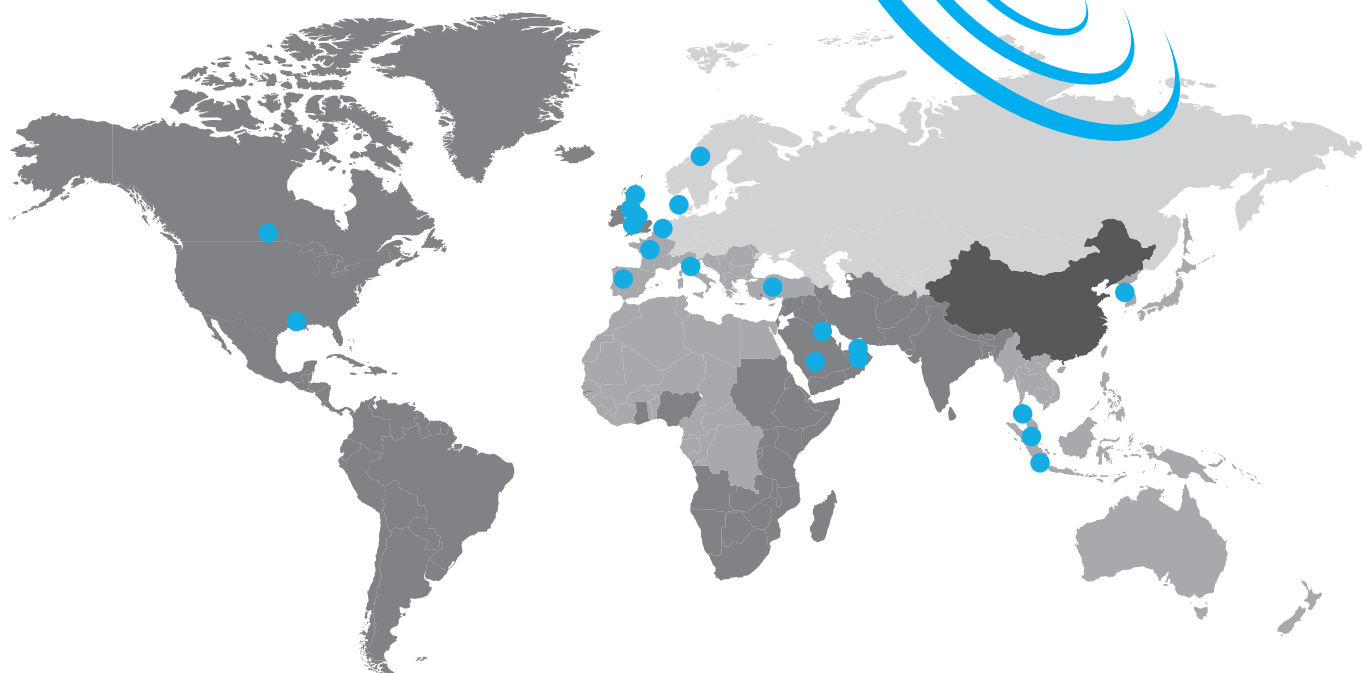
OUR FACILITIES

Pyropress is based in Plymouth in the south of England and operate from a modern and purpose built 17,000 square foot facility.

All of our manufacturing and design is undertaken here by our skilled engineers, and our close-knit team allows for a fluid and efficient component production line.

We have excellent links by air, sea and road allowing us to offer exceptional delivery times.





Distribution partners ★(at time of print - full details on website)

DENMARK	- Tormatic AS
FRANCE	- AI2C sas
INDONESIA	- Farnam Oil & Gas Sdn Bhd
ITALY	- Eisenbau S.r.l
KOREA	- Smartline Ltd
KUWAIT	- ESCO Trading Ltd
INDIA	- Spectrum Offshore & Onshore Services PVT Ltd
MALAYSIA	- Farnam Oil & Gas Sdn Bhd
NETHERLANDS	- PandID B.V.
NORWAY	- Tormatic AS
OMAN	- Vanguard Engineering & Oilfield services
ONLINE SALES (EUROPE)	- Valves Online Ltd
SAUDI ARABIA	- Al Mutawa Instruments
SINGAPORE	- Baypore Private Ltd
SPAIN	- Hispa Controls
TURKEY	- Ram Olcu Ve Kontrol Sistemleri Dis Ticaret Ltd Sti.
UAE – Dubai, Sharjah	- Omega Engineering
UAE – Abu Dhabi, Al Ain	- Peninsula Engineering Services
UNITED KINGDOM	- Fluidic Ltd. - North West UK, Scotland and Nuclear related projects
	- Process Instrument Sales - East UK
	- Pyropress Engineering - All other areas
USA (LA, OK & TX)	- Protos Inc.

(Full details of above companies can be found on our website)

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